Notice of Allowability	Application No.	Applicant(s)	
	10/601,327	OCCHIPINTI ET AL.	
	Examiner	Art Unit	
	Marjorie Moran	1631	
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT F of the Office or upon petition by the applicant. See 37 CFR 1.31	S (OR REMAINS) CLOSED i i) or other appropriate comm RIGHTS. This application is	in this application. If not include	ed Course THIS
1. X This communication is responsive to the AF of 2/8/07 and	l a telephone call on 3/15/07		
2. The allowed claim(s) is/are 1.5-8.10.12-16. 18-21 and 30.			
3. Acknowledgment is made of a claim for foreign priority u a) □ All b) □ Some* c) □ None of the: 1. □ Certified copies of the priority documents hav 2. □ Certified copies of the priority documents hav 3. □ Copies of the certified copies of the priority do International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE"	re been received. Te been received in Application Tocuments have been receive	on No ed in this national stage applica	
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	MENT of this application.		
4. A SUBSTITUTE OATH OR DECLARATION must be subminformal PATENT APPLICATION (PTO-152) which give	nitted. Note the attached EX ves reason(s) why the oath o	AMINER'S AMENDMENT or Nor declaration is deficient.	OTICE OF
 CORRECTED DRAWINGS (as "replacement sheets") mu (a) including changes required by the Notice of Draftsper 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR each sheet. Replacement sheet(s) should be labeled as such in 	son's Patent Drawing Revier - 's Amendment / Comment o	r in the Office action of	back) of
 DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT 	DISIT OF BIOLOGICAL MAT FOR THE DEPOSIT OF BIO	ERIAL must be submitted. NOLOGICAL MATERIAL.	Note the
Attachment(s) 1. ☑ Notice of References Cited (PTO-892)	·		
Notice of References Cited (PTO-892) Notice of Draftperson's Patent Drawing Review (PTO-948)		Informal Patent Application Summary (PTO-413),	
3. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date	Paper No.	/Mail Date <u>4/27/07</u> . Amendment/Comment	
Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. ⊠ Examiner's 9. □ Other	Statement of Reasons for Allo	wance

Status of After-final Amendment

The after-final amendment filed 2/8/07 was timely filed and has been entered. After entry of the after-final amendment, claims 1, 2, 5-10, 12-16, 18-37 are pending. In view of the agreement to enter an examiner's amendment (see the Interview Summary), claims 1, 2, 30, and 31 are hereby rejoined with claims 5-10, 12-16 and 18-21.

Examiner's Amendment

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Paul Rusyn on 4/27/07.

The application has been amended as follows:

Cancel claims 2, 9, 22-29, and 31-37.

Replace claim 1 with the following:

A molecular memory device manufactured according to the method of claim 5.

Claim 7: In line 2, delete the term "a" before "chemical."

Application/Control Number: 10/601,327

Art Unit: 1631

Claim 10: In line 1, replace "claim 9" with --claim 5--. In line 2, delete the term "derivative".

Claim 13: In line 1, replace "claim 9" with --claim 5--.

Claim 16: In line 1, replace "claim 3" with --claim 5--.

Claim 18: In line 1, replace "claim 3" with --claim 5--. Also in lines 1-2, delete the phrase "the method further comprises the step of selectively". In line 2, replace "to write" with --writes--.

Claim 19: In line 1, replace "claim 3" with --claim 5--. Also in lines 1-2, delete the phrase "the method further comprises the step of". In line 2, replace "to write" with -- writes--.

Claim 30: In line 2, insert "molecular" before "memory" and replace "comprising" with --manufactured according to the method of claim 5.-- Delete lines 3-6.

Reasons for Allowance

The following is an examiner's statement of reasons for allowance:

Application/Control Number: 10/601,327

Art Unit: 1631

The prior art does not teach or fairly suggest a molecular memory device manufactured according to the steps recited in calim5; and specifically does not teach or suggest contacting first nanoelectrodes to first ends of DNA strands AND contacting nanotubes to second ends of the DNA stands.

It is noted that the claims of US 7,122,461 recite steps similar to those of the instant claims. However, the claims of '461 are directed to manufacture of a semiconductor, not a memory device, and fail to recite any limitation similar to that of hybridizing or not hybridizing of DNA strands to store desired data in the DNA strands, thus there is no interference between the claims of '461 and the instant claims.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Claims 1, 5-8, 10, 12-16, 18-21 and 30 are allowed.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Marjorie Moran whose telephone number is 571-272-0720. The examiner can normally be reached on M-F 6:30 am- 2 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ram Shukla can be reached on 571-272-0735. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/601,327 Page 5

Art Unit: 1631

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Marjorie Moran Primary Examiner

Art Unit 1631